FGFR3
Recombinant Human FGFR-3 (IIIc)/Fc Chimera, soluble

Catalog No.	CRF018A	**Quantity:**	10 µg
	CRF018B		50 µg
	CRF018C		1.0 mg

Alternate Names: Fibroblast growth factor receptor 3, CD333

Description: Recombinant human soluble FGFR-3 alpha (IIIc) was fused via a Xa cleavage site with the Fc part of human IgG1. Human recombinant soluble FGFR-3 alpha (IIIc)/Fc is a disulfide-linked heterodimeric protein.

Fibroblast Growth Factors (FGFs) comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorigenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding.

Four distinct genes encoding closely related FGF receptors, FGFR-1 to -4 are known. Multiple forms of FGFR-1 to -3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGFR-1 and -2 results in receptors containing all 3 Ig domains, referred to as the alpha isoform, or only IgII and IgIII, referred to as the ß isoform. Only the alpha isoform has been identified for FGFR-3 and FGFR-4.

Additional splicing events for FGFR-1 to -3, involving the C-terminal half of the IgIII domain encoded by two mutually exclusive alternative exons, generate FGF receptors with alternative IgIII domains (IIIb and IIIc). A IIIa isoform which is a secreted FGF binding protein containing only the N-terminal half of the IgIII domain plus some intron sequences has also been reported for FGFR-1. Mutations in FGFR-1 to -3 have been found in patients with birth defects involving craniosynostosis.

UniProt ID: P22607

Gene ID: 2261

Source: Insect cells

Molecular Weight: 170 kDa (593 aa) predicted, heterodimer
190 kDa, apparent, due to glycosylation, non-reduced

Formulation: Lyophilized from PBS

Purity: >90%, by SDS-PAGE and visualized by silver stain

Endotoxin Level: < 1 EU/µg

Biological Activity: Measured by its binding ability to FGF-2 in a functional ELISA. Recombinant human soluble FGFR-3(IIIc)/Fc Chimera binds to immobilized recombinant human FGF-2.

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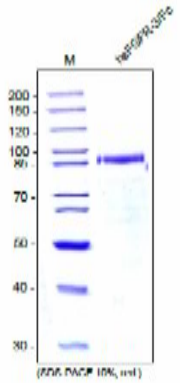
Reconstitution: **Centrifuge vial prior to opening.** The lyophilized sFGFR-3/Fc should be reconstituted in PBS or medium to > 50 µg/ml.

Storage & Stability: Store lyophilized product for up to 1 year at -20°C to -80°C. Reconstituted sFGFR- 3a (IIIc)/Fc should be stored in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles**.

Amino Acid Sequence: ESLGTEQRVVGRAAEVPGPEPGQQEQLVFGSGDAVELSCPPPGGGPMGPTVWVKDG
TGLVPSERVLVGPQRLQVLNASHEDSGAYSCRQRLTQRVLCHFSVRVTDAPSSGDDE
DGEDEAEDTGVDTGAPYWTRPERMDKKLLAVPAANTVRFRCPAAGNPTPSISWLKNG
REFRGEHRIGGIKLRHQQWSLVMESVVPSDRGNYTCVVENKFGSIRQTYTLDVLERSP
HRPILQAGLPANQTAVLGSDVEFHCKVYSDAQPHIQWLKHVEVNGSKVGPDGTPYVTV
LKTAGANTTDKELEVLSLHNVTFEDAGEYTCLAGNSIGFSHHSAWLVVLPAEEELVEAD
EAGDPRRASIEGRGDPEEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTP
EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVTVLHQDWLN
GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEAL
HNHYTQKSLSLSPGK

SDS-PAGE analysis of Recombinant Human soluble FGFR-3/Fc produced in insect cells. Sample was loaded in 10% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.



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